CENTRE FOR ENVIRONMENT, FISHERIES AND AQUACULTURE SCIENCE LOWESTOFT LABORATORY, SUFFOLK, NR33 0HT

2008 RESEARCH VESSEL PROGRAMME

PROGRAMME: RV CELTIC VOYAGER: CRUISE 4-08.

STAFF:

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1 x MI staff

DURATION: 24 March – 4 April 2008

LOCATION: Irish Sea

AIMS:

- 1. To conduct a plankton survey using a 76cm Gulf VII plankton sampler to determine the distribution and abundance of cod (*Gadus morhua*), haddock (*Melanogrammus aeglifinus*) and plaice (*Pleuronectes platessa*) eggs.
- 2. To remove fish eggs from fresh plankton samples at sea. To measure, stage and preserve these eggs individually, in ethanol prior to species identification using a DNA technique on return to the laboratory.
- 3. To collect surface nutrient and salinity samples at each of the sampling stations.
- 4. To collect surface chlorophyl samples every five sampling stations.
- 5. To collect supplementary sub-surface environmental data using a self-logging package carried on the Gulf VII plankton samplers.
- 6. To collect fine mesh (80 micron) PUP net samples for subsequent zooplankton analysis on every Gulf VII deployment.
- 7. To continuously log sub-surface (3m) salinity, temperature and fluorometry data using the ships pumped seawater supply and onboard CTD.

PLAN:

RV Celtic Voyager will sail from Howth, (Dublin) on 24 March and proceed to the Irish Sea to complete a grid of plankton stations as the forth of a series of five ichthyoplankton surveys to estimate the spawning stock biomass (SSB) of Irish Sea cod, haddock and plaice. The plankton grid (figure 1) will comprise approximately 100 stations in the Irish Sea between 53°N and 55°N. RV Celtic Voyager will dock in Belfast on 4 April to enable gear to be offloaded for the final RV Corystes cruise in this series of surveys. Ethanol and formalin preserved samples will be offloaded and returned to the Cefas Lowestoft laboratory.

GEAR:

List distributed separately and marked to relevant individuals for attention.

Stephen Milligan Scientist-in-charge 24 January 2008

INITIALLED:

DISTRIBUTION:

Basic List +

M. Armstrong

Pieter-Jan Schon (AFBINI, Belfast)

John Breslin (Marine Institute, Galway)

Clive Fox (SAMS, Dunstaffnage)

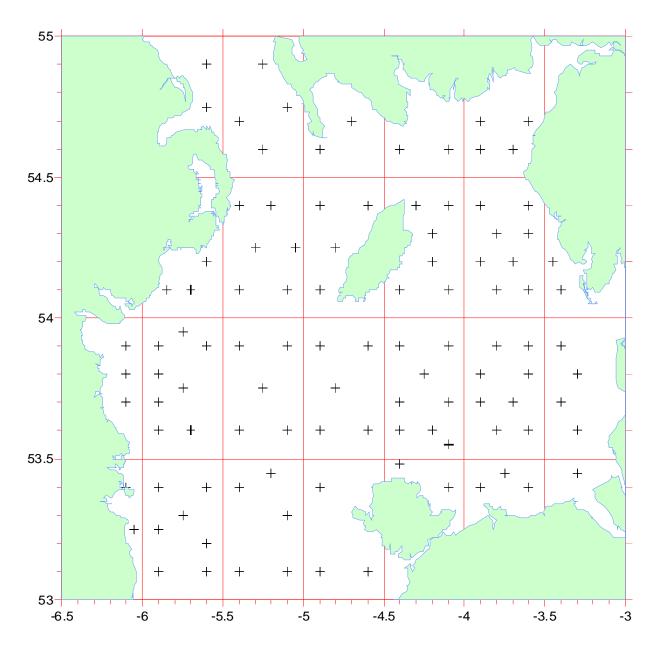
FCO (for Republic of Ireland)

Sea Fisheries Committees:

Cumbria

North Western and North Wales

South Wales



Proposed ISEPS plankton sampling grid 112 stns